



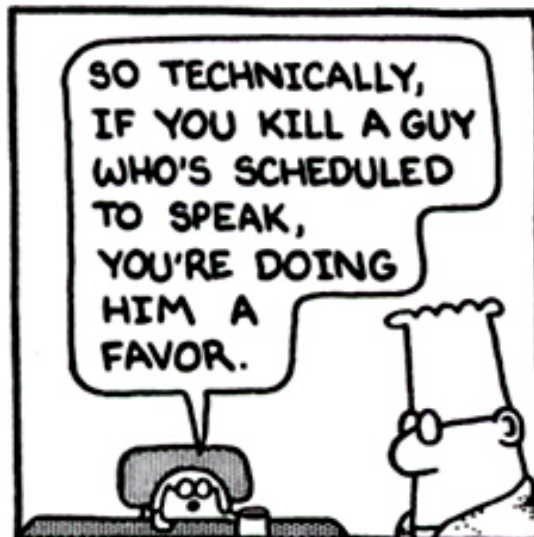
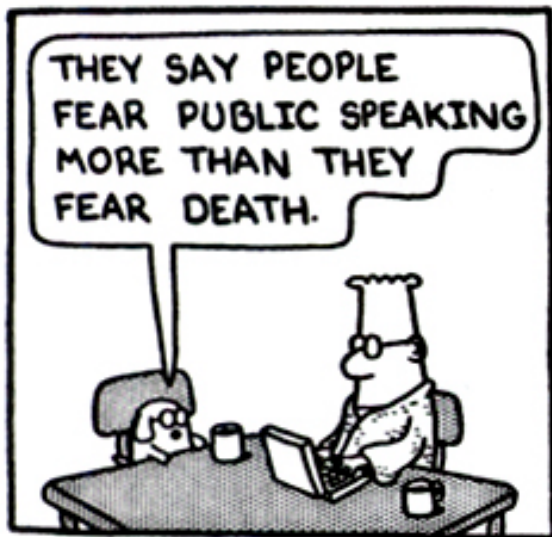
AASHTO's Cooperative Software Development Program

AASHTOWare[®]

Transportation Software Solutions

Trns•port User Group Meeting
November 5 – 8, 2002
Austin, Texas







AASHTO,
the Trns•port Task Force and
the Trns•port User Group

Working Together





So, just how does it all work together?

Just plain luck?

Magic?



So, just how does it all work together?

~~Just plain luck?
Magic~~





So, just how does it all work together?

Organization

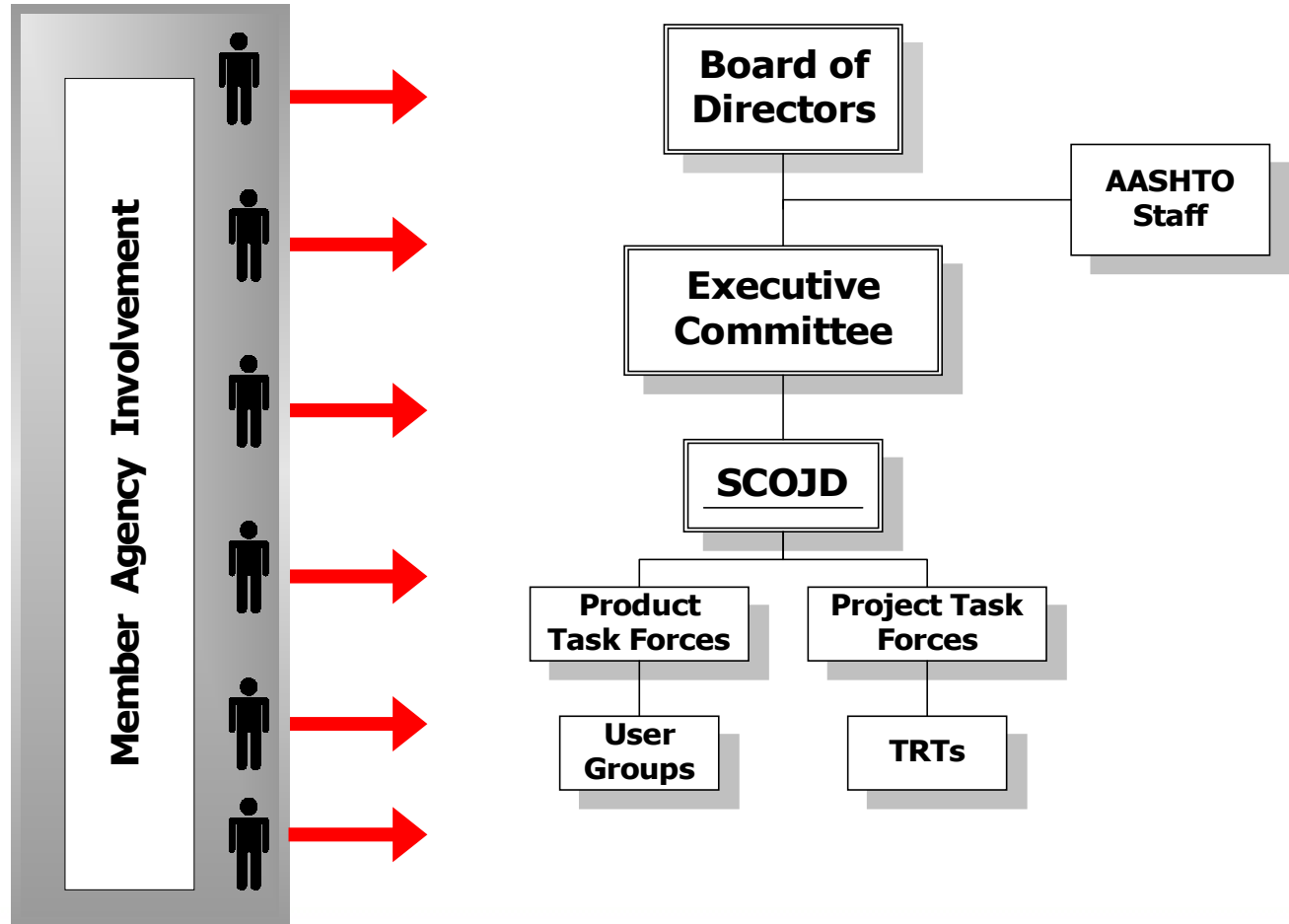
Cooperation

Participation

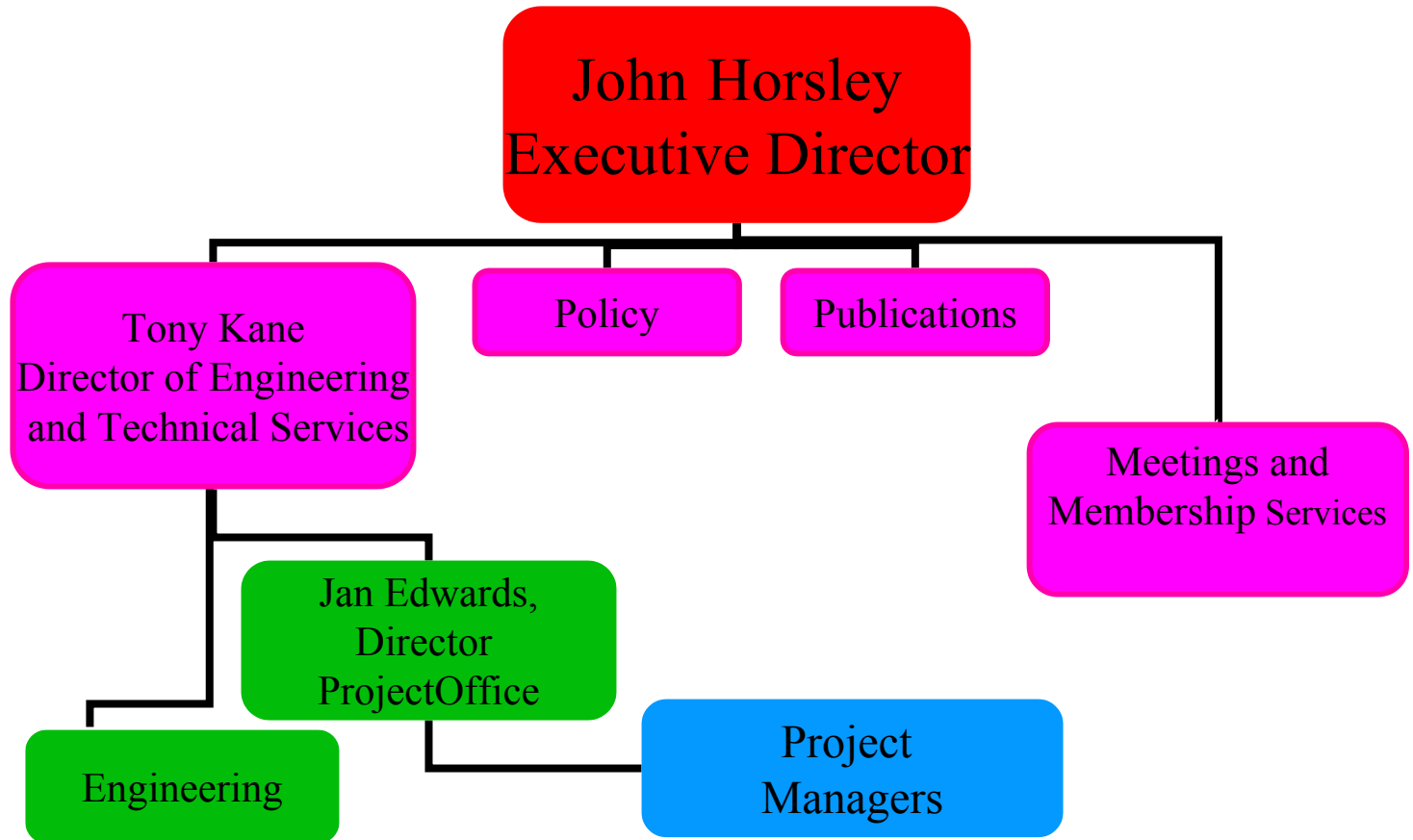
Experience



Cooperative Computer Software Development



AASHTO Organization Chart



What is AASHTO?

- Established by the State DOTs in 1914 to work toward common goals
- Primary functions:
 - Advocate for transportation issues in Washington
 - Develop globally-recognized transportation engineering guides, standards, and software
 - Facilitate information-sharing between the Member Agencies through meetings, workshops, and the Internet
 - Represent the Member Agencies in national discussions with other groups

AASHTO Structure

Governed by Board of Directors:

- CEO of each Full Member Agency

50 State DOTs, District Of Columbia DOT
& Puerto Rico DOT

AASHTO Structure

11 Standing Committees:

Modal Committees:

- Aviation
- **Highways**
- Public Transportation
- Railroads
- Water Transportation

Topic-Oriented Committees:

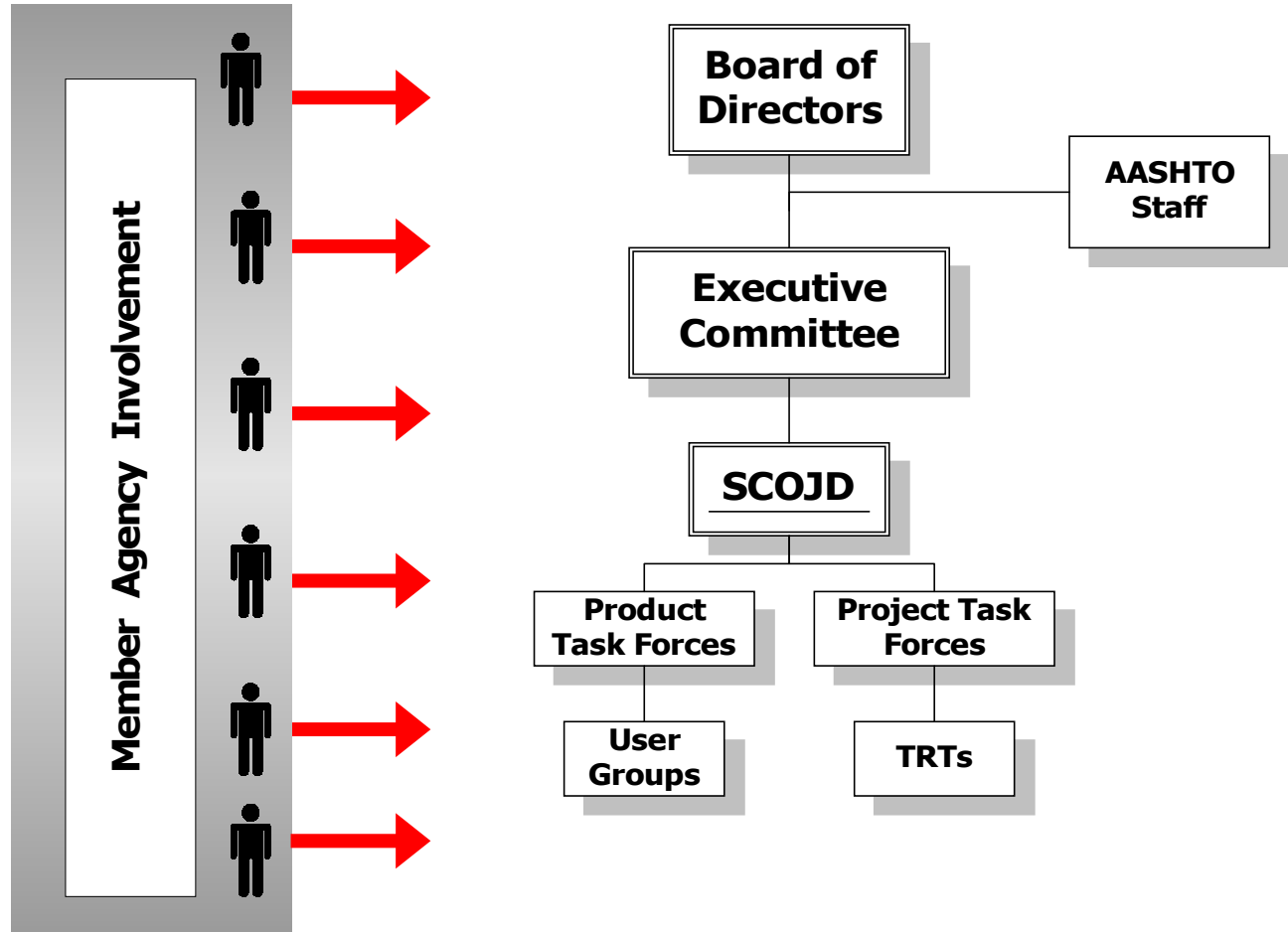
- Administration
- Environment
- Planning
- Quality
- Research
- Safety

- Over 200 committees within the AASHTO Structure
- Members are primarily State DOT representatives

Standing Committee on Highways

- Consists of the Chief Engineer from each State DOT
- Primary responsibilities:
 - Developing policy related to the nation's highway system
 - Approving technical documents developed by subcommittees and task forces
 - Responding to FHWA and other federal agencies regarding proposed regulations
- Nine subcommittees cover all aspects of highway work, from right-of-way to design to construction to operations to maintenance...
- *Chair:* Joe Perkins, AK
- *Vice Chair:* Frank Danchetz, GA

Cooperative Computer Software Development



What is the Cooperative Software Development Program?

It is the AASHTO Program under which AASHTOWare[®] is developed and managed

AASHTOWare[®] is software developed, supported and maintained through an economical, not-for-profit, pooled-fund process known as “AASHTO joint development”

AASHTOWare Methodology

Ensuring Delivery

- Documented processes and clearly defined roles and responsibilities allow defined, repeatable, and manageable results:
 - Cooperative Computer Software Policies, Guidelines and Procedures (contractually binding on Contractors).
 - AASHTOWare Standards and Guidelines notebook (contractually binding on Contractors).
 - AASHTOWare Strategic Plan.
 - Task Force Handbook.
 - AASHTOWare Catalog
- Member participation at all levels of process.
- AASHTO professional project management staff.

Governing Documents

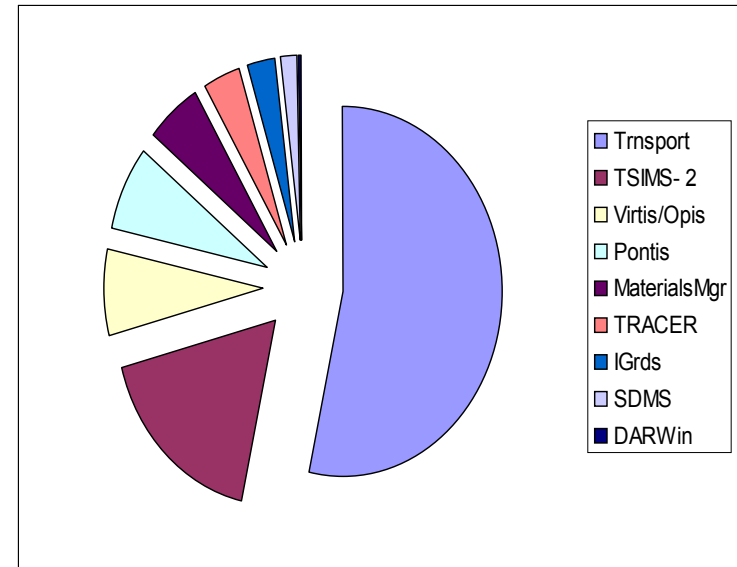
- Cooperative Software Development Program Policies, Procedures and Guidelines (PG&P)

This Policies, Guidelines and Procedures (P, G & P) **document is intended to gather in one place the principal guiding documents relating to AASHTO's Cooperative Computer Software Development program.** Included herein is AASHTO Administrative Resolution AR-2-86, which was most recently revised by the AASHTO Board of Directors on April 21, 2002. It constitutes the principal policy guidance on this important and growing AASHTO activity. Additional guidelines and procedures derived from and intended to clarify and provide further detail on AR-2-86 are also included.

FY 2003 Budget

Trns•port	\$16,673,507	(53.2%)
TSIMS - 2	5,519,346	(17.6%)
Virtis/Opis	2,391,219	(7.6%)
Pontis	2,300,732	(7.3%)
MatlsMgr	1,774,771	(5.7%)
TRACER	1,164,179	(3.7%)
IGrds	948,034	(3.0%)
SDMS	487,439	(1.6%)
DARWin	<u>80,188</u>	(0.3%)

TOTAL = \$31,339,414



Special Committee on Joint Development

- Study all policy issues and topics with respect to the Cooperative Computer Development Program in consultation with all active product and project task forces and bring recommendations resulting therefrom before the Board of Directors and Executive Committee for action, as appropriate.
- Review and approve all procedural documents, manuals and other guidelines pertaining to the process and management of the Cooperative Software Program
- Approve the appointment and removal of Product and Project Task Force members as necessary and the designation of the chairperson of each.

Special Committee on Joint Development

- Establish advisory groups when appropriate on the recommendation of the product and/or project task forces.
- **Recognize users groups when appropriate.**
- Review project proposals, and authorize solicitation of the membership for participation and funding for Cooperative Computer Development Projects.

AASHTO Staff

The Executive Director, or his authorized delegate(s), shall:

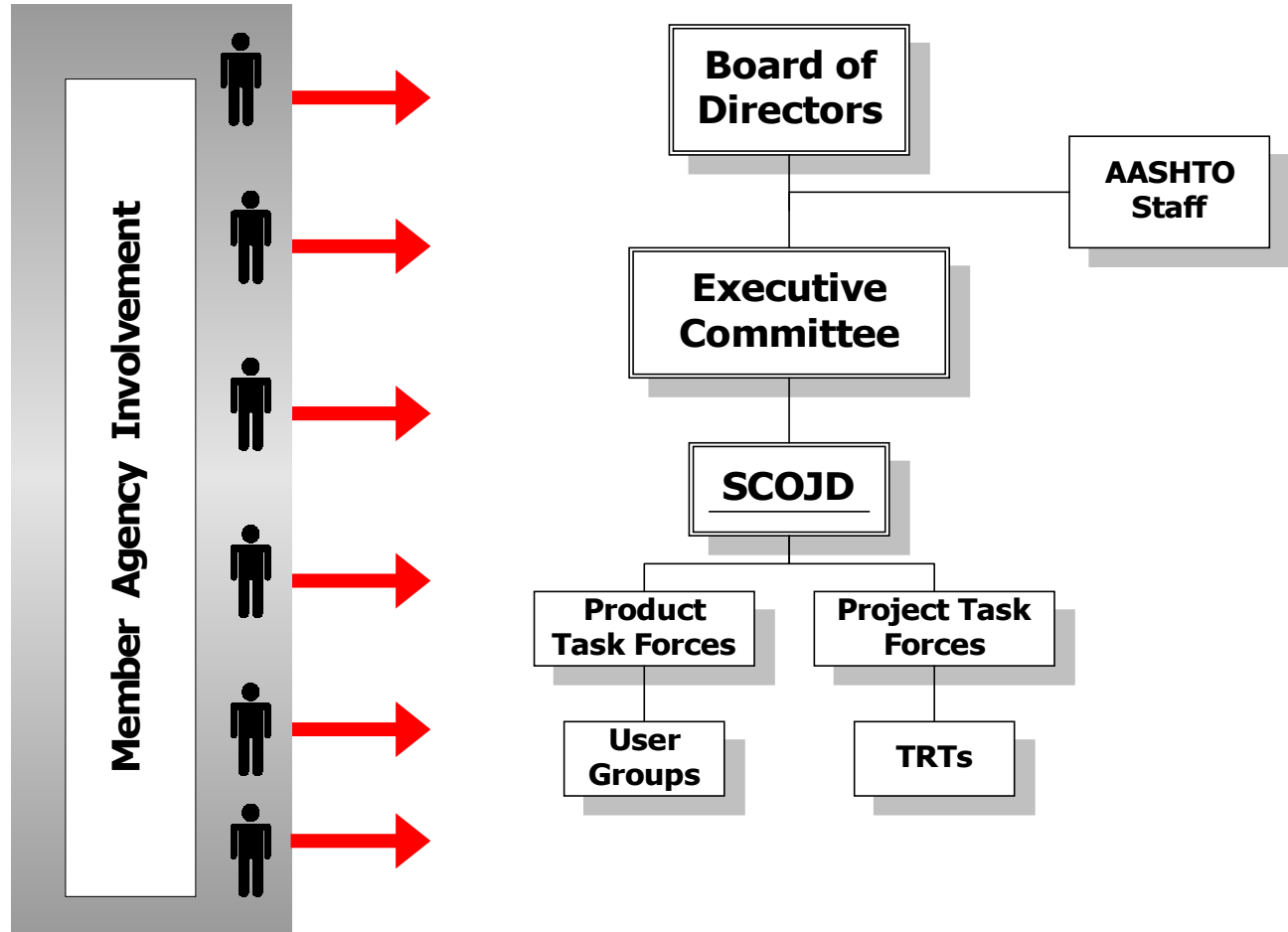
- Serve as an ex-officio, non-voting member of the Special Committee on Joint Development, all product and project task forces, and such other teams, working groups and other entities as are created in furtherance of this program.
- Attend the meetings of the Special Committee and all task forces, as required.
- Assemble and submit all budgets to the Executive Committee and approve all interim budget revisions.
- Approve all solicitations for proposals, quotations or qualifications attendant to the preparation of a contract for services or equipment in advance, whether oral or written.

AASHTO Staff (Continued)

The Executive Director, or his authorized delegate(s), shall:

- Lead all contract negotiations and contract revision negotiations.
- Execute all contracts and contract modifications or revisions.
- As the AASHTO Contract Officer, establish guidelines and instructions for task force chairpersons and members concerning necessary record keeping, communications with contractors and such other topics as appropriate to ensure the proper management and administration of all contracts.
- Prepare and distribute detailed and summary financial information necessary for contract administration and management and distribute to the Special Committee and task force members, as appropriate.

Cooperative Computer Software Development



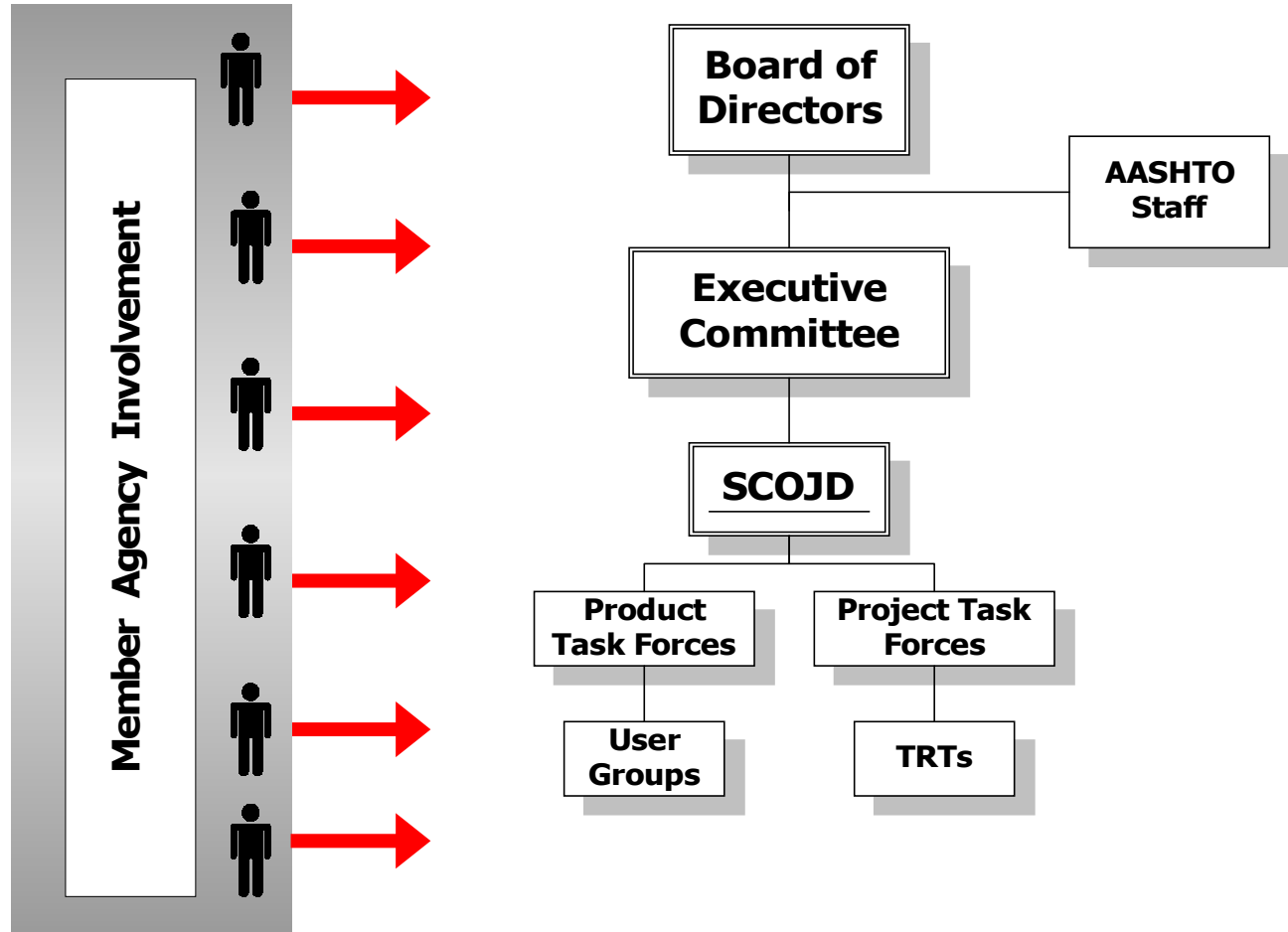
Trns•port Task Force

- Prepare product information for distribution to the AASHTO membership by the Executive Director or his delegate.
- Prepare, refine and, when approved by the Special Committee on Joint Development, implement a product marketing plan including recommendation of appropriate fee schedules.
- **Receive advice and recommendation from the users group.**
- Develop and recommend work plans for contracts for maintenance, enhancement, and training.
- Monitor and direct the product distribution activities and also contract compliance and progress.

Trns•port Task Force

- Prepare and submit recommended budgets for product maintenance, enhancement and training, and task force travel needs to the Chairperson of the Special Committee on Joint Development and the Executive Director or his delegate.
- Review all contractor invoices and make recommendations by the Task Force Chairperson on contractor payments to the Executive Director or his delegate.
- **Recommend** requests to proceed with project or product related software development activities from AASHTOWare Contractors to the AASHTO Executive Director.

Cooperative Computer Software Development



Trns•port User Group

- Individually represent his or her participating member department's, or licensed organization's interest in the product.
- Provide advice and recommendations to the Product Task Force on:
 - the Product's effectiveness,
 - the Product's deficiencies, and
 - any needed product enhancements.
- Define and detail any product training and support needs.
- Detail and prioritize maintenance, enhancement, and support needs.
- **Submit the resulting recommendations to the Trns•port Task Force.**

AASHTOWare Fundamental Principles

Initiating an AASHTOWare Project:

- A single member department, group of member departments, or AASHTO committee(s) identify a need for a major new development area, or an enhancement to an existing product;
- With staff assistance, a project proposal is developed;
- Proposal reviewed by the Special Committee on Joint Development;
- Upon SCOJD approval, proposal distributed to AASHTO membership for voluntary commitment and participation

RECAP - AASHTOWare Process Management

- **User Groups** provide advice and recommendations to the Product Task Force on:
 - the Product's effectiveness,
 - the Product's deficiencies, and
 - any needed product enhancements
- **Task Forces** guide software development performed by contractors
- **Special Committee on Joint Development** provides technical management oversight
- Full-time AASHTO Staff management
- All costs paid out of license fee revenue or project solicitations or additional financial participation

So, does it all work together?

YES!

Cooperative Software
Development is a
REALITY!

Working Together



The AASHTOWare web site

The AASHTOWare web site

SOURCES for Information

- Policies, Procedures & Guidelines Publication
- AASHTOWare Catalog
- AASHTO Staff (cconley@aaashto.org)
- Web Sites (www.transportation.org and www.aashtoware.org)
- Trns•port Task Force